

ABSTRACT

In a multi-piece solid golf ball comprising a solid
5 core, a mantle and a cover, the solid core is made of a
rubber composition that includes (A) a base rubber containing
a polybutadiene synthesized using a rare-earth catalyst, (B)
a small amount of organic peroxide, (C) an unsaturated
carboxylic acid and/or a metal salt thereof, (D) an organic
10 sulfur compound and (E) an inorganic filler. The mantle is
made of a thermoplastic resin composition. The cover is made
of a material composed of a heated mixture of (F) an
olefin/unsaturated carboxylic acid copolymer, an
olefin/unsaturated carboxylic acid/unsaturated carboxylic
15 acid ester copolymer, or a metal ion neutralization product
thereof, (G) a polyurethane elastomer, and (H) an organic or
inorganic basic compound. This construction provides the
golf ball with an outstanding flight performance, excellent
scuff resistance and a soft feel on impact, and minimizes the
20 decline in rebound by the ball at low temperature.